

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Mike Warren <71555.713@CompuServe.COM>
Subject: re: "Big" transmitters
Message-ID: <961206131318_71555.713_CHN41-1@CompuServe.COM>

Barry L. Ornitz writes . . .

> Imagine! An antenna tuning network so large it occupied
>an entire large room with coils of Litz wire big enough to walk through.

I remember working on a VLF transmitter and antenna during my Navy days at the NAVCOMSTA Adak (Alaska) transmitter site in the '60's. The antenna was a 800' tower sitting on a hugh insulator. There was a "shack" at the base of the tower containing one of the big litz-wire coils Barry mentioned. The transmitter itself was built like a small house with rooms (and doors!) for each stage. The PA "room" had a pair of tubes that were replaced using a crank and chain hoist mechanism. PA tank coil was large enough to stand up in -- in fact it was a favorite "re-enlistment" spot for some of the Ham's stationed on Adak. (I opted for making the Officer-in-Charge climb the 800 footer to administer my re-enlismment oath; he was not a "happy camper"). It was a nice duty station for a Ham, except for RFI problems. Ever try operating in the middle of an HF antenna field of rhombics and vee's fed with open-wire line from a bunch of 10 and 40KW xmtrs?

Ahhh, the good ol' days.

73, Mike, W5MAZ (in MN)

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: roecker.greg@ist.mds.lmco.com
Subject: re: "Big" transmitters
Message-ID: <Chameleon.849883634.greg@roeckerpc.ist.mds.lmco.com>

>I remember working on a VLF transmitter and antenna during my Navy days at the
>NAVCOMSTA Adak (Alaska) transmitter site in the '60's. The antenna was a 800'
>tower sitting on a hugh insulator.

I flew P-3 Orions into and out of Beautiful Downtown Adak Alaska . . . and the definition of "scary" was to shoot an approach into Adak in the crud, and haveing to execute a missed approach over the top of "White Alice" . . . that billboard sized antenna array at the end of the runway, up on top of the hill!!!!!! We were given many briefings, and "fam" flights when the weather was good (loose term for when the wx was marginal enough to actually SEE some of the antenna farms near the runways!!!!) . . . What a great place . . . They had the best GCA controllers in

the world up there !!!! . . .

73,

Greg Roecker / N4OSJ

Greg Roecker
E-mail: roecker.greg@ist.mds.lmco.com
Voice: 770.698.5226
Fax: 770.698.5220
From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: km1h@juno.com
Subject: Re: "Big" transmitters
Message-ID: <19961206.150915.7311.8.km1h@juno.com>

Great story Mike! A feature article of the Navy VLF station near Calais, ME was in QST back many years ago. One of the photos showed a RMC walking thru the coil!

While in the Navy I had the opportunity to visit Wheeler AFB in Libya. During non-traffic times the hams used to put the driver stage on the Washington, DC rhombic and have a ball on 20M. There were a "few" occasions that they "forgot" to bypass the 50KW amp! Signal reports and stateside comments were amusing!

73....Carl

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: paul Veltman <veltman@netcom.com>
Subject: Re: 1626
Message-ID: <Pine.3.89.9612051847.A24608-0100000@netcom5.netcom.com>

If I remember correctly, it was also used in some early Motorola VHF radios.

Paul WA6OKQ

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: launerb@crl.com (William H. Launer)
Subject: Re: 1626
Message-ID: <v01530505aec3f11f8dc@[192.0.2.1]>

My Heathkit AR-1 receiver (1951) uses a 1626 as the local oscillator, so I assume it was used in WW II military gear. It's roughly an octal equivalent of a 6C4 (4w vs 5.5w for the 6C4 - in Class C applications).

73, Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arci #3551
Grid Square EM48RT

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Cal Eustaquio N6KYR <ceustaqu@dot.w6bhz.calpoly.edu>
Subject: 32V continuing status
Message-ID: <Pine.SUN.3.91.961206102802.5229B-100000@dot.w6bhz.calpoly.edu>

I folks. Continuing on with my blow-by-blow resto event, here's what up.

So far, I repainted all surface rusted transformers and the bottom of the p.s. chassis. That takes care of the rust problem. I also took out the final plate meter and fixed that. Actually, I removed the meter movement and took out the metal retaining ring and glue the meter glass back to the case using Elmers. Now before you take exception to that step, there is a reason for this: there was leftover older glue material stuck to the glass. I glued that portion to the case. Reason: in case I do the same stupid mistake again (by putting my hand on the glass), the present repair configuration will serve as a mechanical "fuse." There is enough pressure to keep the dial glass in place but enough to give if external pressure is applied to the glass. Other than that, I will be installing the xfmr's in today. Keep an open channel. Next week will probably see a 32V on the variac with the capacitors being reformed.

Just one final question: the HV section uses an oil filled cap. I don't think that needs reforming but do you think that ought to be brought up on a variac anyway? Shouldn't hurt. Cal.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: w4bld@juno.com (Robert B. Kerby)
Subject: 3CX1000 A7 Tube ??
Message-ID: <19961206.181050.5063.8.W4BLD@juno.com>

I know where one of these things can be found, new in the box. What is it used for and what is it worth. This particular tube is manufactured by Amperex. Thanks for your help. Note that the tube is not listed in anything I have. Thanks, Bob

Robert B. Kerby W4BLD - I collect Gonset, Morrow, and Elmac -
Post Office Box 991 (UPS ADDRESS: 231 Rosser Avenue)
Waynesboro, VA 22980 w4bld@juno.com (540) 942-4356 Nets I frequent
are:
DX-60 AM Net at 1400 EST Sun. p.m. on 7290; Trader's on Wed. and Sat on
3865 at
2000 EST and AM SWAP on 3885 at 1830 EST on Thur.

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "William B. Ross" <billross@txdirect.net>
Subject: Re: 4PR1000
Message-ID: <32A78F0E.75A3@txdirect.net>

Stan Griffiths wrote:

>
> Now to the point: I have had occasion to test several 4PR1000s also. I
> have yet to find one that has enough emission left to be very useful to me.
> I have a theory on this. I suspect, unless the guy from Eimac was pulling
> my leg, that new 4PR1000s and new 4-1000s should look the same when testing
> them in my amp. I believe that all the 4PR1000s I have seen have been
> "pulls" from some big pulse transmitter where they ran 20 KV or something on
> the plate. When a 4PR1000 won't emit at that plate voltage, it is REALLY
> dead and that is when I get to see it. There are probably some good used
> 4PR1000s out there but I have just never seen one.

The EIMAC specification sheet indicates that the 4PR1000A has a
non-emitting grid, which could explain the low emission characteristics
you have observed.

I have used these tubes (both new) with excellent results in cathode
driven amplifiers. Even so, it is unclear to me just what problems one
might expect from the differences they have with non pulse models
(4-1000A).

Bill K5LLK

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: David Cooley <cooldave@ipass.net>
Subject: Re: 4PR1000
Message-ID: <1.5.4.32.19961206041915.0068301c@mail.ipass.net>

At 09:14 PM 12/5/96 -0600, you wrote:

>Stan Griffiths wrote:

>
>>

>> Now to the point: I have had occasion to test several 4PR1000s also. I
>> have yet to find one that has enough emission left to be very useful to me.
>> I have a theory on this. I suspect, unless the guy from Eimac was pulling
>> my leg, that new 4PR1000s and new 4-1000s should look the same when testing
>> them in my amp. I believe that all the 4PR1000s I have seen have been
>> "pulls" from some big pulse transmitter where they ran 20 KV or something on
>> the plate. When a 4PR1000 won't emit at that plate voltage, it is REALLY
>> dead and that is when I get to see it. There are probably some good used
>> 4PR1000s out there but I have just never seen one.

Actually, this particular tube I know the history of... (I installed it,
maintained it, and replaced it).
We use them at much less than rated capacity, only putting 10kv on the
plate, 1.5kv on the screen, and -287 (approx) on the grid (2ma plate current
idle). We run a 3% max duty cycle with 150 watts in max (usually less than
1/2 that) max peak out is 17KW... We only push the output in daily use to
between 4KW and 8KW... after the correction to the tubes linearity curve
drifts over 5% from the initial curve when the tube was installed, we pull
it and throw in another. This particular tube has just a hair over 5000hrs
filament on time... Probably 50% of that is useage, and again at a much
reduced power output and 3% duty cycle. Should have lots of life left in it.

Later,
Dave

=====
David Cooley A.K.A. N5XMT cooldave@ipass.net
<http://www.ipass.net/~cooldave/>
=====

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: wb6zwc@ns.net
Subject: Allied Catalog
Message-ID: <199612061855.KAA20176@eagle.ns.net>

Just received my new Allied Catalog--956 Engineering Manual and Purchasing
Guide. Interesting browsing.

1-800-433-5700
Richard@Sacramento

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: wj5j@juno.com (John D Hensley)
Subject: Attention National Collectors

Message-ID: <19961205.231001.4679.1.wj5j@juno.com>

For Sale:

National HRO-M, new condition, perfect other than a small 1 cm x 1 cm touch up spot on front panel where it looks like natural paint flaking may have taken place. Easily airbrushed out.

Receiver came from AWA collection, sold as a duplicate and is complete with original dog-house supply (also perfect), fabric covered cord, and 8 coils which have slight differences in finish. Coils are immaculate with original frequency tuning charts which actually appear new. The overall condition is what collections are all about. This is my last HRO of this quality.

Minimum bid is \$525. Offers held in confidence. Will accept highest bid on Sunday January 5th. Payment must be by certified check. Considering the prices that beat up units go for nowadays, you'll can't beat this value.

Have a good weekend folks and take a moment out Saturday morning to remember the folks who served at Pearl Harbor on 7 December '41.

Very 73, Doug WJ5J
USNAVMARCORPS MARS NNN0BXX
RNARS 4412

***** WJ5J / NNN0BXX *****
WTB: KS1 p.s. for Heath KL1; HA20 vhf amp; H013
panadaptor; small cabinet for Heath Seneca, VHF1
Filter switch for 51J4, cabinet and speaker for 51J4
***** wj5j @ amsat.org *****

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Paul Bock" <pauboc@smtpink.pulse.com>
Subject: Re: Audio transformer - *another* "OOPS!"
Message-ID: <9611068499.AA849914235@smtpink.pulse.com>

This is a response to an e-mail from Tom, WC9M, but may be instructive to others as well:

Using half the transformer winding is not half the impedance,

it's one-fourth; i.e., half of a 1000-ohm winding is really 250 ohms. This is because impedance varies with the *square* of the turns ratio. Voltage varies *directly* with the turns ratio, so using half of a CT 12.6 V transformer winding is 6.3 V, but impedance don't work that way!

You can prove this mathematically as follows: Assume that a transformer has a 1000-ohm, center-tapped primary and an 8-ohm secondary. The impedance ratio is therefore $1000/8 = 125$, but the *turns* ratio is the square root of 125, or $\text{SQRT } 125 = 11.18$.

Now assume we're only going to use 1/2 the primary, so the turns ratio is cut in half and is $11.18/2 = 5.59$. The new impedance ratio is the *square* of the new turns ratio, or $5.59 * 5.59 = 31.25$. If the secondary remains unchanged at 8 ohms impedance, then the impedance of the new primary (with half the winding) is the secondary impedance (8) times the impedance ratio (31.25), or $8 * 31.25 = 250$ ohms.

Sorry for the corn-fusion; just use the whole primary, that's a more than adequate match for 600 ohm audio stuff. In fact, in VSWR terms it's only $1000/600 = 1.67:1$. Using half of it (250 ohms) the VSWR is $600/250 = 2.4:1$.

73,

Paul, K4MSG

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: BA AM XMTR
Message-ID: <77085.ddillman@igc.apc.org>

On Thu, 5 Dec 1996 16:54:17 -0600 (CST),
Marty Raine <mraine@edmonton.cbc.ca> wrote:

>There have been a few posts asking about old AM transmitters.
>I have a question about one here. I recently "acquired" a 50W AM
>xmtr from a university radio station. I've never heard of this beast
>and would like to get it on 160M someday:
>
>Low Power Broadcast Co

>Does LPB still exist?

Yep, I believe so. I have one of their catalogs at work if you'd like

me to check, or you might just try directory inquiry. They made their reputation with transmitters and consoles for college and community stations, including carrier current stations which may have been the application of the transmitter you have.

Dick Dillman
WPE2VT W6AWO ex-N6VS
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: mknudsen@lucent.com
Subject: Re: BA beauty (was BA aromas)
Message-ID: <9612062015.AA00867@bock.ih.lucent.com>

Well, there ahs to be a place in the BA Museum of Art for the bandswitching crankshaft used in the Hammarlund Super-Pros 200 and 400 series.
Four sections of gold-plated lobes evenly spaced at 72-degrees.
Looks like a big golden snake between the main and BS tuning caps.
Too bad you have to remove a dozen-plus screws to see it, but it's worth the trek if you have one of the radios.

It's OK (at least on my set) to operate the bandswitch and watch the snake writhe with the cover off, but be sure to put it back to keep the dust out.

If you substitute "giggles" for "awe", the 75A4's passband tuning that rocks the whole PTO (including two tubes) back and forth is right up there. But its performance is awe-inspiring.

The cast Al innards of the Racal RA-17 add up to a thing of beauty, and weigh less than the SPitfire engine :-) 73, mike k aa9rg

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: BA Plastic Gear Covers
Message-ID: <19961206.035213.8103.1.k7yha@juno.com>

Gang?

Anyone remember the outfit that use to make opaque plastic covers for gear back in the 60s and 70s? This outfit advertised in QST all the time and I was wondering if they were still in business or if someone else was offering these plastic covers to keep the rigs clean and dust free?

Need them for my SX-117/HT-44/PS150 station, also the SX-71 and HQ-170AC receivers.

73 rich K7SZ

PS: DX worked the last two nites on 80 mtrs with the SX-117/HT-44 combo (CW abt 65 watts): OX3G0 and a UA2....not bad for an old BA station and a simple Zepp at 45 ft.

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: mknudsen@lucent.com
Subject: Re: BC779 Cover
Message-ID: <9612061843.AA00803@bock.ih.lucent.com>

That's the bottom plate, and someone will surely want it.
Top cover is both sides plus top and back in one piece.
My BC-779A came complete, but someone else will grab that bottom.
73, mike ka a9rg

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: jproc@bellglobal.com
Subject: Re: Books F.S.
Message-ID: <Chameleon.4.01.2.961205175237.jproc@>

Dear BA'ers,

The response to my For Sale post was good. Everything has been sold except for the 1964 US Callbook, 1975 Callbook and the RF Capacitor Handbook.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
HMCS Haida Naval Museum
Toronto, Ontario
'Looking for a 'AN/SRC-501'

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Chassis Punches
Message-ID: <m0vVo6t-0000jRC@e-tex.com>

Hello HB BAers,

After the recent chassis punch postings I thought I would repost this info.

Philmore Chassis Punch

1/2", 5/8",3/4",1" and 1 1/8" hole size. This is the type with the threaded bolt in the center and different size shims and cutters are selected. Works excellent on aluminum and copperclad. About 30 years ago I used a set like it to punch steel chassis. I had a lot enthuaism back then.

Price is 44.95 from Edlie Electronics,2700 Hempstead Turnpike,
Levittown,L.I., NY 11756, 516-735-3330.

Part Nr. is TL647-26

73 de Pete WA5JCI "no connection to nothing"

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996

From: paul Veltman <veltman@netcom.com>

Subject: Re: Chassis Punches

Message-ID: <Pine.3.89.9612051812.A24608-0100000@netcom5.netcom.com>

>

> Philmore Chassis Punch

> 1/2", 5/8",3/4",1" and 1 1/8" hole size. This is the type with the

>

> Price is 44.95 from Edlie Electronics,2700 Hempstead Turnpike,

> Levittown,L.I., NY 11756, 516-735-3330.

Have any of you used these? I've purchased some Philmore RF connectors over the last couple of years, and they were really crappy. I told my local parts guy that from now on, I'll just by Amphenol. I hope the Chasis Punches are better quality.

73

Paul WA60KQ

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996

From: Old Man <ebjr@worldnet.att.net>

Subject: Re: Chassis Punches
Message-ID: <19961206061139.AAC19923@LOCALNAME>

At 02:58 AM 12/6/96 +0000, you wrote:

>>
>> Philmore Chassis Punch
>> 1/2", 5/8", 3/4", 1" and 1 1/8" hole size. This is the type with the
>>
>> Price is 44.95 from Edlie Electronics, 2700 Hempstead Turnpike,
>> Levittown, L.I., NY 11756, 516-735-3330.
>
> Have any of you used these? I've purchased some Philmore RF connectors
> over the last couple of years, and they were really crappy. I told my
> local parts guy that from now on, I'll just buy Amphenol. I hope the
> Chassis Punches are better quality.
>
> 73
>
> Paul WA6OKQ
>

I have an assortment of Greenlee punches I've collected for the last
45 years
from 1/2" to 2-1/2" round and 1/2" to 1" square. Got a 5/8" "D" and the
"key" punch that you mount the retainer ring sockets in. I hope whoever
liquidates my estate puts them up for you guys. In the meantime, no, they
ain't for sale!

73,
E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, repaired, traded and used!"
417 Ridgewood Drive,
Metairie, LA., 70001
ebjr@worldnet.att.net
Looking for: ELMAC PMR-7/PMR-12, Hallicrafters SR-75, 860 tubes

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: "William B. Ross" <billross@txdirect.net>
Subject: Re: Chassis Punches
Message-ID: <32A83971.36A5@txdirect.net>

I have a set of the Philmore punches and they work quite well as chassis
punches and for light panels. Not recommended for standard steel rack
panels though. As a punch set priced at about the cost of one Greenlee
punch, they are a good value for what they were intended.

Bill K5LLK

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: km1h@juno.com
Subject: Chassis Punches
Message-ID: <19961206.150915.7311.9.km1h@juno.com>

Has anyone used the Edlie punches? I have had less than satisfactory results with past purchases and have not dealt with them for about 10 years.

Same query about Philmore punches.

Would either hold up to a typical Hammond steel chassis or a standard aluminum rack panel?

I have misplaced or loaned out many Greenlees and would like to fill in the missing sizes. Thankfully my large meter punches and the square ones have not yet learned how to walk.

Tnx for any feedback.....Carl

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Garey Barrell, K40AH" <75025.73@CompuServe.COM>
Subject: Crystals
Message-ID: <961206193354_75025.73_FHD50-1@CompuServe.COM>

I have a box of over 150 of what I think are FT-241 crystals.

These are the ones that are about 1 1/8" square by 3/8" thick. Some are black bakelite and some are brown phenolic, and both have the "Channel" number and frequency in raised letters on a painted white background on the end opposite the pins.

There is at least one for each "Channel" from "0" to "79" EXCEPT for channels 10, 22, 40-49, 56 and 59.

Fifty of them are in the "Channel 300" range between 317 and 371, and there are a handful in the "Channel 200" series. (I was tired of sorting by the time I got to the "200" series!)

Any interest / value ??

73, Garey - K40AH
75025.73@compuserve.com

Atlanta

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: Conard Murray <ws4s@InfoAve.Net>
Subject: Dec 7 BA net idea
Message-ID: <2.2.32.19961206082622.0068f420@infoave.net>

Hey everyone,
Lets mark the anniversary of "the day that will live in infamy" by firing up
our WWII rigs for the BA net on 3579.5 Saturday night. I will be there with
the TCS and maybe an ARC-5/BC-348 combo.
See you there around 0200Z on to whenever....
de Conard, ws4s

Conard Murray WS4S NNN0UTN WDX4CQ ex KA4JEC AFA2JZ RC196 Glowbugs
Listowner
217 Dyer Avenue, Cookeville, TN 38501 615-526-4093
ws4s@infoave.net
<>< Wise men still seek Him <><

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: midshires@cix.compulink.co.uk (Andrew Emmerson)
Subject: Re: Drilling holes in sheet metal
Message-ID: <memo.287645@cix.compulink.co.uk>

We don't see much English content on Boatanchors here in Britain so it
was interesting to see the favourable comment on the round and square
hole punch tools.

There are in fact two major brands, Q-Max and Dentron (I think they're
called Dentron; used to be Futtters). As well as the normal round and
square holes, you can also get exact shapes for 25-pin Sub-D connectors
and a variety of common electrical connectors and switches. They're not
cheap but they do save a heck of a lot of drilling, cutting and filing!

Neither manufacturer sells direct to end users but the big catalogue
sellers (Radiospares, Electromail and Farnell) have them.

Andy G8PTH.

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: wj5j@juno.com (John D Hensley)
Subject: Re: Filter switch for 51J4
Message-ID: <19961205.220020.5143.4.wj5j@juno.com>

Having commented that I have seen or heard about a dozen 51J4 units missing their mech. filter switch:

On Thu, 5 Dec 1996 18:05:17 -0500 (EST) Dave, W3BJZ, <slkst29+@pitt.edu> writes:

>Doug, what happens is that whenever the front
>panel is removed, the owner shoves the panel
>back against the switch rather than tilting the
>panel. You know the rest.

>

>Dave, W3BJZ

>Publisher of the monthly Collins Journal

>

>

Thanks Dave,

Now I know.

Okay, fellow 51J4 owners, fess up and sell me your broken switch and linkage parts so that I can take measurements and fabricate one for my receiver ! Would anyone be interested in a spare if I go into production? How about a smooth replacement filter for that scratchy, chalky 6 khz original ? ;^),,,,

73, Doug WJ5J

***** WJ5J / NNN0BXX *****
WTB: 51J4 filters, case, covers, power xmfr., sm knobs
HT32B knob set and unit for parts. Power supply for the
Hallicrafters HA2 or HA6 transverter. Looking for Heath
KS1 p.s. for KL1, HA20 vhf amp; HO-13 panadaptor
***** wj5j @ amsat.org *****

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Larry Bearse" <lbearse@mail1.nai.net>

Subject: FS: Heathkit Marauder Transmitter
Message-ID: <199612060225.VAA26705@mail1.nai.net>

For Sale:

Heathkit Marauder Transmitter, very good condition cosmetically, tubes light up, but output is low.

The owner is Rich, WB1CJO in East Hartford, CT. His asking price is \$150, and it is pick up only. Please feel free to send email to me if interested and I will relay info back and forth.

73....Larry, WA1LGQ
lbearse@ct1.nai.net

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: hdmeitzen@champion.aclic.com (HD Meitzen)
Subject: Re: FS: SX101, HQ110, SX62, 75A4 get XMAS Pres.NOW
Message-ID: <9612061348.234C84@champion-0845.aclic.com>

When I posted the following I left some info out. Live and Learn.
First the learning process. I actually have two 75A4 of which I plan to sell one they are serial Numbers 1718 and 2855. What is the significance to the value based on serial number and why? The UPS shipping should cover expense to zip 60563 Naperville. I am extending the time on this from today to Tuesday because so many people asked about serial #'s and wanted to know #'s first.
Thanks for response in advance and Merry Christmas.
Dave AA9TO

FS or trade for 51S1, KWS1, Station Console for 75A4/32V2, etc.

- >
- > 1. SX101 is a hummer, everything lights up but get a hum. Power supply bypass is my guess. No dents but the unit has been painted by
- > a slob. The radio is restorable everything is there unmodified.
- > Weight 65lbs.
- >
- > 2. HQ110, no mods, hot little receiver covers HF and 6m. The BFO and
- > clock set knobs non standard. All else appears standard. No dents or
- > dings in general a 7.5 to 8.5. Weight 20lbs
- >
- > 3. SX62, coax connector inplace of ant strip but mod can be

reversed.

> Coverage HF and 6m. Receiver is Hot and has been recaped. Original
> paint that needs update. Some rust inside. Can be restored to
> pristine. Big hunker like the SX101. Weight 55lbs. I like this
one.
> Rare unit not many of these around .
>
> 4. 75A4 VERY CLEAN NO RESTORATION REQUIRED. No dents or dings. chip
> paint on two edges less than .25in. The inside looks new. No
discolor
> of outside paint YL says it looks new. This is a investment peice
the
> way the market has been going on Collins gear. Excellent receiver
> very functional. 3KC. Filter. I've used SSB and CW.Weight 35lbs.
>
> I will take offers and respond to winner Friday morning.
> Please respond include shipping UPS surface +\$10 packing. Domestic
> only don't have time to mess with foreign shipping. I will
entertain
> interesting trades (plus cash if you have something I neeeeeeed).
>
> Merry Christmas even if you have no interest.
>
> Regards

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Holes in sheet metal
Message-ID: <199612062003.NAA11003@netcom5.netcom.com>

So far as drilling holes in sheet aluminum or steel, using a twist drill, goes, the best way I know to prevent the drill "punching" through and grabbing undrilled material in the flutes is to use a backup under the piece. A piece of pine (scrap 2 X 4) works, if you are careful to reduce pressure as the drill starts to break through. Something harder will give more control and require less skill.

Hole saws are ideal for larger holes. Use a 3/8 variable speed drill and keep the speed down to prevent burning the saw. A little motor oil on the work for coolant helps a lot.

I never use "fly cutter" type devices as hole cutters. They will work with a manual bit and brace, but are nasty to get results from on a drill press, and treacherous using a hand-held drill. Fly cutters are basic tooling for vertical milling machines, used for surfacing things, which is very different from trying to bore holes with them.

A drill press doesn't have bearings or mountings adequate to handle a lot of quill side load. Vertical milling machines have much larger quill bearings and massive mountings for strength. While they sell "milling tables" with lead screws for drill press mounting, a drill press should only be used for vertical up-down operations.

Small electronics houses (like Millen) had a Di-Acro punch with a rotary toolholder that had a variety of matching punch-die sets. These were provided with punch-die sets for various round holes, short straight cuts, and square corners, and would cut mild steel stock up to about 1/16 inch. You could make a "custom front panel" or do prototype work with it---although it takes some skill to do neat work. The front panel (non-standard) on my RME-45 was made this way, which leads me to believe that this was an RME-built prototype set.

In the Raytheon Eqpt. Div. shops we had a Wiedemann NC punch, also provided with quick-change punch-diesets. It was sort of amusing to program the thing using APT. I think it took about ten statements to get it to punch out a regular X-Y hole pattern, similar to the holes in the side cover of an old Tek scope. The machine would charge right through, punching one hole at a time, something like 10 per second, and didn't take that long to punch the whole pattern. I used it for some Di-Acro type work, and even though you had to program it first, it was quicker than spinning those @#\$\$% Di-Acro heads around and locking them, and did much neater work.

--

=====
Hank van Cleef

E-mail vancleef@netcom.com or vancleef@tmn.com

=====
From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: John Roccaro <jroccaro@chesco.com>
Subject: Re: IS THERE A SANTA CLAUS?
Message-ID: <Pine.BSI.3.91.961206164412.25525A-1000000@carriage.chesco.com>

My heart overrules my brain on this one: SPY magazine "science" education seems to have stopped at about the time of Newton (for physics) and the time of Darwin (for biology). It should be obvious that Santa is an example of a benevolent alien race who can travel beyond the speed of light, dilate time and compress space. Santa (actually pronounced ZAHNTACH) is stationed at the north pole where the Earth's rotation will not affect the aim of of home-ward bound com-link array, is charged with the mission of teaching Earthlings to love peace in the universe and good will towards all intelligent life. Anyway, thats what I plan to tell

my kids when they start to ask questions...

On Fri, 6 Dec 1996, Robert Bendesky wrote:

> IS THERE A SANTA CLAUS?

>

> As a result of an overwhelming lack of requests,
> and with research help from that renown scientific
> journal SPY magazine (January, 1990) - I am
> pleased to present the annual scientific inquiry
> into Santa Claus.

>

> 1) No known species of reindeer can fly. BUT
> there are 300,000 species of living organisms yet
> to be classified, and while most of these are insects
> and germs, this does not COMPLETELY rule out flying
> reindeer which only Santa has ever seen.

>

> 2) There are 2 billion children (persons under 18) in the
> world. BUT since Santa doesn't (appear) to handle the
> Muslim, Hindu, Jewish and Buddhist children, that reduces
> the workload to to 15% of the total - 378 million according
> to Population Reference Bureau. At an average (census)
> rate of 3.5 children per household, that's 91.8 million homes.
> One presumes there's at least one good child in each.

>

> 3) Santa has 31 hours of Christmas to work with, thanks
> to the different time zones and the rotation of the earth,
> assuming he travels east to west (which seemes logical).
> This works out to 822.6 visits per second. This is to say
> that for each Christian household with good children, Santa
> has 1/1000th of a second to park, hop out of the sleigh, jump
> down the chimney, fill the stockings, distribute the remaining
> presents under the tree, eat whatever snacks have been
> left, get back up the chimney, get back into the sleigh and
> move on to the next house. Assuming that each of these
> 91.8 million stops are evenly distributed around the earth
> (which, of course, we know to be false but for the purposes
> of our calculations we will accept), we are now talking about
> .78 miles per household, a total trip of 75-1/2 million miles,
> not counting stops to do what most of us must do at least
> once every 31 hours, plus feeding and etc.

>

> This means that Santa's sleigh is moving at 650 miles per
> second, 3,000 times the speed of sound. For purposes of
> comparison, the fastest man-made vehicle on earth, the
> Ulysses space probe, moves at a poky 27.4 miles per
> second - a conventional reindeer can run, tops, 15 miles

> per hour.
>
> 4) The payload on the sleigh adds another interesting
> element. Assuming that each child gets nothing more
> than a medium-sized lego set (2 pounds), the sleigh is
> carrying 321,300 tons, not counting Santa, who is
> invariably described as overweight. On land, conventional
> reindeer can pull no more than 300 pounds. Even granting
> that "flying reindeer" (see point #1) could pull TEN TIMES
> the normal amount, we cannot do the job with eight, or even
> nine. We need 214,200 reindeer. This increases the payload
> - not even counting the weight of the sleigh - to 353,430 tons.
> Again, for comparison - this is four times the weight of the
> Queen Elizabeth.
>
> 5) 353,000 tons travelling at 650 miles per second creates
> enormous air resistance - this will heat the reindeer up in
> the same fashion as spacecrafts re-entering the earth's
> atmosphere. The lead pair of reindeer will absorb 14.3
> QUINTILLION joules of energy. Per second. Each. In short,
> they will burst into flame almost instantaneously, exposing
> the reindeer behind them, and create deafening sonic booms
> in their wake. The entire reindeer team will be vaporized
> within 4.26 thousandths of a second. Santa, meanwhile, will
> be subjected to centrifugal forces 17,500.06 times greater
> than gravity. A 250-pound Santa (which seems ludicrously slim)
> would be pinned to the back of his sleigh by 4,315,015 pounds
> of force.
>
> In conclusion -
> If Santa ever DID deliver presents on Christmas Eve, he's dead now.
>

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Ronnie Hull <larebel@ms1.nwla.com>
Subject: Johnson Hardware needed
Message-ID: <1.5.4.16.19961206120539.1f7f4a0e@ms1.nwla.com>

Howdy fellow anchormen!

I am in need of perhaps 16 of the screws that fit the back of the
ranger/valiant/invader series cabinet. Also, 4 of the long screws that
secute the cabinet to the front chassis/cabinet.

Can anyone help me here?

thanks

Ronnie - W5SUM

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: KPH
Message-ID: <77074.ddillman@igc.apc.org>

On Thu, 5 Dec 1996 11:48:08 -0600 (CST),
Larry Godek <AZCOT@gnn.com> wrote:

>Anyone else hear the keyklix from KPH across the 12 mc band. Found
>the main signal at 12.809R2 mc. Tune up about 1 kc more and its
>real bad.

No klix tonight and I'm in groundwave range of Bolinas. I've been
corresponding with the transmitter engineer there, by the way, and the
end for this wonderful station may finally be in sight. Yes, I know
they've been saying that for twenty years, but this time...

The moral: listen to some of the best Morse ops around while you still
can on KPH, KFS, WLO and so on. Then tune down below the SITOR
segment and listen to the ships. Some good ops there too but many of
'em sound like they're beatin' two spoons together. The fellas and
gals at the coast stations still manage 100% copy, of course.

Yep, in the old days there was an op at KFS that copied directly onto
the teletype tape puncher. Wore a green eyeshade, too. Got a picture
of him doin' it.

Don't get me started on this stuff.

Dick Dillman
WPE2VT W6AWO ex-N6VS
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: KPH
Message-ID: <64619.ddillman@igc.apc.org>

On Fri, 06 Dec 1996 02:20:58 -0600,

Conard Murray <ws4s@InfoAve.Net> wrote:

>It is sad, but true....I notice a lot less CW there than in the past. Even
>worse is the 600M marine band. I used that band for code practice back in
>1980. Now it is almost totally vacant. I wonder if we can snag that band in
>a few years for ham use....hey, I can dream, can't I? Surely the LEO
>satellite guys won't want that band!

Greetings, Conrad. I've taken the liberty of posting this reply to the list for all the other hopeless old Morse addicts out there. I hope that's okay.

Yep, 600m was certainly great listening. Here in San Francisco I had KPH, KFS and NMC all with transmitters in the general Bay Area. They'd use 500kc as an intercom channel between them as well as a calling channel. I was not uncommon to hear KFS advise KPH "TFC FOR ON 12 OM" if some sparky was trying to get ahold of the RCA station without success. RCA and ITT might have been competitors at the corporate level but when it came to the code slingers it was a fraternity. Actually, they allowed girls into the club house as well. I well remember the shock of walking into the KPH operating room one day. All the ops had their backs to the central area, of course, but one had long braids! Shoulda married her then and there! Nice fist, too.

The best transmitter on the band was the one at KFS which used MCW. It took a while for the tone to come up after keying started. Always thought it was the filaments warming up on the oscillator or modualtor, but no. When I visited years ago I saw some threaded studs sticking up out of the floor next to the MW transmitter. Asking what they were I was informed that that's where the MG set used to be that provided the tone to modulate the transmitter. The delay was due to the MG set spinning up!

>>Don't get me started on this stuff.

>On the contrary, please do get started. If there was still a market for a
>pro CW op that is where I would be....I guess I was born 60 years too late!
>(1962) Any chances of scanning in some of those photos for guys like Bob,
>NA4G, any myself?

Say, that's a great idea. I don't have any scanning facilities myself but perhaps John of the BA page (or someone else) would be willing to make a special section. I've got pix ranging from B&W shots at KPH and KFS showing the ops at work and (at KPH) the upstairs area with all the trans-Pacific telephone receivers still in service to color prints of recent operations at those stations. Plus some stuff from the 20s. If there's interest I'm certainly willing...

>73 and best holiday wishes to you and the Greenpeace staff!

Thanks most kindly. The same best wishes to you in return.

Dick Dillman
WPE2VT W6AWO ex-N6VS
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Lawrence R. Ware" <lrware@pipeline.com>
Subject: Larry's fourth day of Christmas free stuff list.
Message-ID: <1.5.4.16.19961205200320.3887536a@pop.pipeline.com>

Good evening BA, glowbug and VSS fans:
It's time for "Larry's fourth day of
Christmas," part four of a 12 part giveaway between now and Christmas.
Tonight I'm posting this to "glowbugs" and "VSS," as well as BA
because some of this junk, (errr, *Great Stuff*) might come in
handy to my QRP builder, and vintage sand-state friends too.

So without further ado...
Welcome to Larry's "Fourth Day of Christmas" free stuff giveaway.
Tonight for your perusal, the following items are available
free to good BA, VSS, or glowbugs homes. You get to pay the shipping.

(No takers on this one from last time, so well give it one more try.)
Lot One: (courtesy of Robert Fowle, the Hammerlund guy, who donated
these to the cause.)
Collection of Hallicrafters paper. Service data for the following
models: CR-3000 receiver, CRX-103 receiver, CR-50 RDF receiver,
FM-46,48,52 & 54 receivers, CR-44 & CR-44A RDF receivers.
Each includes specs, dial cord stringing, schematic, parts locator,
alignment data, etc.

(These are repeats also, they were very popular, so I went down
to the local junk shop and bought some more!)

Lot Two:
New EBY ceramic HC-6U crystal sockets. Perfect for that glowbug project.
I have some more of these, one or two per request while they last.

Lot Three:

New EBY "six-pack" HC-6U crystal sockets. These are for six crystals in a line with separate connections for each pin. Could be used for crystal filter project, or with a switch for a six freq. project. Appear to be made of some kind of thermoplastic resin, not Bakelite. I have two more sets of these so one per request please.

Lot Four:

Stack of nice silk screened LM-317 (TO-3) variable output power supply PCB's. With the right parts and a heat sink good for up to 5 amps DC. Great for power supply builders, or regulated DC on your firebottle filaments. About 2.5 X 2.9 inches, everything but the transformer goes on the board. These are raw PCB's only, (no components on board.) Limit two per request, while they last. (These were very popular also, so I went out and dug up lots more! :-)

(Now on to some new stuff :-)

Lot Four:

Seven assorted crystal sockets for *OLD* crystals. These are quite a bit larger than the FT-243 type. Not sure what the holder would be called. Three ceramic, four Bakelite. One per request while they last.

Lot Five:

One set only lighthouse tubes and connectors for the HP 608 sig. gen. Believe these are from a "C" model, untested, but believed to be good. If you own a working HP 608, now is your chance to get a spare set of mod. and output tubes!

Thats going to do it for now, Keep your eyes open for parts five to twelve as we march towards the Christmas season...
<Is it really December already?>

For the benefit of the "glowbugs," and "VSS" folks, (most of the BA folks have seen these a bunch of times) here are the rules:

Winners will be determined by:

- 1) Tell me why you need/want them, points awarded for:
 - a) Repairing or building a firebottle, or VSS rig.
 - b) Needing them to complete a project.
 - c) Buying for someone your "Elmer-ing"
 - d) For old manuals/documents owning the radio or whatever.
 - e) *Making up an outrageous story of what you will use them for. :-)
- * For item "d" the taller and more unbelievable the better...

Storys about Atlantis, Tesla, Los Angles, or alien argonauts from Atlantis who helped Tesla when they met him in LA, are always good for extra points.

2) Bonus points to anyone who has sent me a manual, helped me find a part, or provided advice, (good or bad, it's the effort that counts. :-) or sold me something at a reasonable price.

3) Double bonus points to anyone who has posted thoughtful technical comments to one of the lists recently. (For sale and WTB ads do get old.)

Winners will be determined any darn way I feel like.
Judges decision is final. (Although open to bribes :-)

-Larry

Larry's Home for Wayward Test Equipment & Old Radios (tm)
Let your equipment retire in sunny central Florida.
Intensive Care, Private Bench Space, Frequent Use,
Factory trained HP, Tek. & Fluke Surgeon on staff.
Good Home Guaranteed or double your junk back!
lrware@pipeline.com, - Orlando, Florida -

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: RIlowite@aol.com
Subject: Low power am xtr
Message-ID: <961206025956_673986641@emout08.mail.aol.com>

Hi Gang: Looking for a low power AM transmitter for my church. one to 10 watts would do the trick. I know that a unit like this was made for the military for use on bases for entertainment purposes. I need this for our hard of hearing people. I have found that the 100 mw unit in use now does help. It works better with a small earphone than the hearing aids many of our people use. The trouble is that more power is needed to overcome light dimmer noise and dead spots. If any one has such a unit I would be very interested in acquiring such at a reasonable price.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Micro Vacuum Attachment Kit
Message-ID: <199612062151.PAA25471@legend.txdirect.net>

What a handy little set of gadgets! "Eight piece kit converts any vacuum cleaner into a precision electronics cleaner. Ideal for computers, stereo equipment, VCRs, office machines and more." Also BOAT ANCHORS!! I bought a

Best 73,
gary

I posted a VT to JAN cross reference to the BA archives a while back. There may be other lists there as well.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
Radio Restoration Volunteer
HMCS Haida Naval Museum
Toronto, Ontario

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Paul Bock" <pauboc@smtplink.pulse.com>
Subject: More on radio interference
Message-ID: <9611068499.AA849921686@smtplink.pulse.com>

On the subject of interference, even your own radio can sometimes do you in! Last year I built a Ten-Tec 1208 6-meter transverter to use with my "sandbox" (catbox?) HF transceiver, only to find that the latter's synthesizer put out a whole raft of spurs smack in the middle of the 6-meter band, some as strong as S-9, and they were being radiated from the microphone cable on the transceiver! Of course, I was using an indoor dipole for "beta testing" at the time, but the levels of some of the spurs were just too big to ignore.

I won't detail it here, but I ended up going inside the xcvr and doing a bunch of bypassing behind the front panel on the PTT line (the worst offender), PTT return, UP/DN lines, etc. Eliminated some spurs entirely and knocked the biggest ones down to barely audible above the noise level at worst, and with an outside antenna the band is now "clean" of spurs from the sandbox.

Guess _____ (Nipponese Mfr) engineers never thought that their xcvr would be used with a VHF transverter - which makes no sense, because it even has an XVTR jack on it!

73,

Paul, K4MSG

P.S. The xcvr + 1208 combo on 6 works *really* slick now; I only run 10 watts "slop-bucket" to a 3-element yagi and have a number of transcon QSOs in the log.....quick & cheap 6 meters, that's for sure! But the Arcus-Fivus & BC-348 is a lot more fun..... ;-)

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: 4CX250B@miavx1.acs.muohio.edu
Subject: Re: Newark and chassis punches,
Message-ID: <v03007800aecdfeb4a316f@[134.53.5.143]>

>Anybody have the phone number for Newark? Someone posted a message and
>referenced some good prices.

Newark Electronics sells a line of chassis punches, which are manufactured in England under the name Q/Max. I think the English distributor that supplies the punches to Newark is called Farnell, and Newark references the Farnell parts numbers in their catalog. Newark Electronics has sales offices all over the country, and buyers are expected to phone the nearest sales office. My nearest sales office is in Cincinnati. The person who took the order was very helpful and happily faxed me the catalog page referencing the punches. Sizes are available up to 1.5 inch diameter, and larger diameters can be obtained in metric sizes. I could only find two square punches, 3/4in and 1 in, and they are much more expensive (\$30-\$40) than the round punches, but still a bargain compared to Greenlee. Alas, there didn't seem to be any "D" punches for BNC connectors, or other specialized shapes. Still, they are the best bargain going, and it's now possible to completely outfit your workshop for under \$200 total.

Jim W8ZR

P.S. It's been my experience over the years that English-made machine tools tend to be very high quality. For reasons I've never completely understood, the English seem to be very fussy and meticulous about their machining, and their tools reflect this preoccupation.

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: w2ec@VNET.IBM.COM
Subject: Re: Newark and chassis punches,
Message-ID: <199612061711.LAA06908@uro.theporch.com>

>Newark Electronics sells a line of chassis punches, which are manufactured
>in England under the name Q/Max. I think the English distributor that

It completely slipped my mind, but I have been using Q/Max punches for quite a few years. I bought them originally to use for race car preparation and restoration (my other BA hobby). I use them to punch holes through body panels for running electrical cables or installing instruments on new dash panels. A long time ago I started using them for chassis punches as well. As noted, you can get round, square or rectangular punches. I've used them

on aluminum and steel, even a few plastic panels once. They've held up very well and were a lot less expensive than others on the market.

>P.S. It's been my experience over the years that English-made machine
>tools tend to be very high quality. For reasons I've never completely
>understood, the English seem to be very fussy and meticulous about their
>machining, and their tools reflect this preoccupation.

That's just called pride of workmanship and feeling responsible for providing a quality product at a reasonable cost, something much of the rest of the industrialized world has retreated from. Make it as cheap as possible and make as much profit as the market will stand. The heck with integrity of the product. It's a throw-away world. As an owner of several British cars, I've dealt quite often with our cousins across the pond in obtaining rare and unusual parts and tools and the dealings have always been pleasurable. I feel like I'm dealing with gentlemen, not someone in a dark trenchcoat in a street alley trying to offer me a real deal. Fortunately, I've found the same pleasurable experience dealing with those I've meet here on the BA List. Must be most BA'ers have some "English Gentlemen" blood in them.

Ray W2EC

British BA's (as in 50's/60's design) 1957 AC Ace Roadster
1957 AC Aceca Bristol
1964 MGB Roadster

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: "Morton L. Denison" <mdenison@postoffice.ptd.net>
Subject: Newark and hole punchers
Message-ID: <32A78F4C.5A1D@postoffice.ptd.net>

Anybody have the phone number for Newark? Someone posted a message and referenced some good prices.

Thanks

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Laird_Tom_N@hpmail1.90.deere.com
Subject: Newark and hole punchers
Message-ID: <H00005a004691bab@MHS>

> Anybody have the phone number for Newark? Someone posted a message
> and
> referenced some good prices.

>
> Thanks
>

For more information, call us at 1-800-4-NEWARK (1-800-463-9275). Our
800
number is available in the US and Canada.

Tom Laird WC9M

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: Newark and hole punchers
Message-ID: <Pine.SC0.3.91.961206080238.6348A-100000@sd.cts.com>

On Fri, 6 Dec 1996, Morton L. Denison wrote:

> Anybody have the phone number for Newark? Someone posted a message and
> referenced some good prices.
>

800-298-3133 - they also have branches all over the country.

\$ 25 min. order. \$ 250 min export order

John Kolb KK6IL

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Bob <KE4QOK@worldnet.att.net>
Subject: Re: Newark and hole punchers
Message-ID: <19961206160654.AAA6621@LOCALNAME>

At 02:14 PM 12/6/96 +0000, you wrote:

>Anybody have the phone number for Newark? Someone posted a message and
>referenced some good prices.
>
>Thanks

These guys have branches or distributor all over the place. There are 3
pages of phone numbers in the front of the catalog. Anyone who wants the
info drop me a line with your state and the nearest large city(some states
have several branches). I'll send back the info.

John King WA1ABI AMI #777

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: R-390A <=> Chart Recorder
Message-ID: <65842.ddillman@igc.apc.org>

I've finally picked up a chart recorder, a very nice Moseley model 680, with selectable ranges from 5mV to 100V DC. The hoped for application is to make a graphic recording of the varying electrical noise level here (to detect any cyclical pattern) using the R-390A as the receiver.

Can any of you '390 experts advise the best way to connect the recorder to the receiver to make such measurements?

Dick Dillman
WPE2VT W6AWO ex-N6VS
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Benjamin D. Hall" <BDHall@GHGCorp.com>
Subject: Re: R390/R390A cogniscenti
Message-ID: <32A89F34.68E@GHGCorp.com>

> Can anyone describe thier experiences with Fair Radio's "user
> reparable"
> equipment offerings?

No, but I can provide my experiance with the used/checked stuff.

Purchased a USED-CHECKED R-390A from them, paid a total of \$300-n-something for it. It is a very nice looking unit, with covers but no meters. Out of the box, it would only work with the ZERO ADJUST knob fully engaged, and this was traced to a cable assembly being clamped down upon by one of the front panel brackets. Easy fix. Next problem was that the headphone jack didn't work. Well, I just fixed that the past two weeks, and that turned out to be due to a disconnected headphone jack wire. Now that I fixed that, I noticed a wire hanging onto the LOCAL AUDIO pot by a single conductor, so I fixed that. As a result, my LOCAL AUDIO is now about twice as loud. Now that I have all

that fixed, it goes neck-n-neck with my HQ-150 as being my favorite. It is more sensitive and has a nicer filter setup than the HQ-150, but the HQ-150 is a better bandscanner.

So, I love the R-390A but I wasn't thrilled about Fair calling it USED-CHECKED. Yes, it is a very clean unit with a near perfect front panel and knob set. But, I'm not sure if or not these problems were due to UPS abuse (possible, not probable) so I cannot finger-point at Fair too much, but the radio out of the box had problems that I would have thought would have been caught by a check-out process...

My advice: look for one at a Hamfest, paying bigger \$ for Fair's USED-CHECKED doesn't mean that it is gonna work out of the box. However, with everything on it working great now, it is well worth the \$300-n-something I paid for it, and if I had it to do again I probably would.

Just my few cents...

73,

Ben

--

From the computer of	Collector of fine firebottle
Benjamin D. Hall, Houston Texas	equipment, as well as other things
BDHall@GHGCorp.com -or-	involving Earth, Air, Water, and
Benjamin.D.Hall1@JSC.NASA.gov	Fire.

"When you clock the human race with the stopwatch of history, it's a new record every time." - From the soundtrack of The Fischer King.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: Re: R390/R390A cogniscenti
Message-ID: <v03007801aece76c5d103@[134.53.65.12]>

>So, I love the R-390A but I wasn't thrilled about Fair calling it
>USED-CHECKED.....

>My advice: look for one at a Hamfest, paying bigger \$ for Fair's
>USED-CHECKED doesn't mean that it is gonna work out of the box.

>>

>73,

>Ben

>

Ben is exactly right about this. I live only a couple of hours from Fair Radio, and make several trips a year there. Here's the scoop on "USED-CHECKED:"

Fair has a long-time employee, named Don, who is a former military service tech who reminds me of the TV repair shop owner who gave me my Novice exam in 1955. Don is in his sixties, and has the job of checking out and repairing equipment. His working space is at the end of a narrow corridor in one of the Fair Radio warehouse rooms, a corridor piled high on both sides with grimy old junkers, parts, cables and connectors, knobs, switches, weird instruments labelled with strange messages like "APR1103B/U Phase Reducer", unlabelled boxes, old chassis carcuses, etc., none of which appear to be sorted or organized in any way. A 1950-vintage AM radio with a broken knob is tuned to a Lima, country music station and plays 24 hours a day. The place is seedy, run-down, dirty, cold and drafty, and completely disorganized. In other words it is perfect. One can scarcely imagine a more enjoyable place.

Don's "workbench" is a cardtable-sized bench, piled high with nuts and bolts, vacuum tubes, burned out capacitors, screwdrivers, wire cutters, clip leads, broken panel meters, brackets from stripped gear, etc. There are a couple of ancient looking test instruments, including a voltmeter, nixie-tube counter, and oscilloscope. Much of it looks like it fell off a fork lift and spent the winter outdoors. In fact, much of it probably did.

Don checks out R390As by turning them on to make sure they light up, receive a signal, and don't hum too badly. He may check to make sure the BFO works, but that's about it. He doesn't check sensitivity, selectivity, or frequency calibration. On reconditioned units, he will go through a rough alignment procedure, and when Fair had replacement meters, he would put new meters in the units that needed them. Cabinet repainting is done by a different employee, and is either done with a paintbrush or a spray can, depending on the color desired. As I recall, R390 cabinets were painted with a brush, and Collins KWM2/30L1/51S1 cabinets were sprayed with a standard Rustoleum color. Don't ever buy anything "reconditioned" if you learn that the cabinet has been repainted.

When you buy something "USED-CHECKED," you can be reasonably certain none of the switches are broken and none of the transformers are bad. To me, "USED-CHECKED" means the instrument can probably be restored and made to work without too much grief. If something you buy turns out to need parts, then Fair is very good about sending replacement parts, no questions asked. Financially, it obviously makes more sense for them to replace anything a customer is dissatisfied with than it does to check it out carefully in advance. So long as you know what you're getting into, Fair is a great place -- one of the best and last of a dying breed of the nation's great surplus houses. It won't be too many more years before such places become as extinct as the gear they sell. Enjoy them while you can.

73,

Jim W8ZR

>

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: Dennis McLaughlin <dennism2@ix.netcom.com>
Subject: R390A capacator C609 on audio chassis
Message-ID: <01BBE392.F762D380@akr-oh3-02.ix.netcom.com>

Hi

Does any one know the correct value of C609 on the audio chassis of a R390A. The cap in my R390A was replaced with a .01 MFD 400VDC CP05A1KE103K3 MIL-C-25 paper hermetically sealed axial leads. The original cap must of exploded burning the clear sleeves on the caps on both sides. TM 11-856A page 76 shows the value of C609 at 8UF. Is this a misprint or is this the correct value? If correct this is a odd value and if the voltage rating is high a large capacator. Would someone please look at the cap on their R390A and send me all the information on the capacitor. I have access to military specifications to determine what type of capacator it is.

Thanks

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: gcr2@po.CWRU.Edu (George C. Rybicki)
Subject: R392 Xtals Needed
Message-ID: <199612061456.JAA11780@piglet.INS.CWRU.Edu>

Hi Gang. I picked up a nice R392 for a few pence, I want to restore it but some evil force removed all 23 xtals. Anyone have a spare Osc module or xtals they could part with. Fair has em but its not economical to go that route. As an incentive I would trade the meter which is the r392/r390 carrier level meter for the xtals. Thanks George

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: Radio Interference
Message-ID: <Pine.SUN.3.91.961206083443.27838A-100000@indy1>

On Wed, 4 Dec 1996, Richard Hager wrote:
[First quoting Barry Entlich:]

> > [...] eventually the processor clock, bus, video, etc. speeds will
> > be so high as to be beyond any frequencies we're interested in
> > receiving on our BAs ;-)
>
> [...] When the -fundamental- is so high that it's above the rcvr's
> range...hee hee...

Alas, don't count on it for the video display side of things--scanning systems are "good enough" when they outpace persistence of vision, and making the electron stream wriggle faster after that doesn't buy much unless you've got an IMAX theatre (wide, fast-rate film, 180d or 360d screen, realer-than-real) for a monitor. And most any display scheme uses lots of waveforms with abrupt transitions--prime generators of RFI.

We installed a rack-mounted PC for the new satellite receiver system at WTHR's transmitter. *Looks* positively boatanchorish! The (very ordinary) monitor is tucked into a steel cabinet. With the addition of a wire-screen backing on the Lexan screen cover and a punched-metal back with a RFI-suppressing feedthrough connectors for power & drive, it'd make for a pretty quiet monitor. Nor would it be hard to come up with a home-shop version in lighter metal. Just a thought--might be a quicker fix than conductive paint, and for those who keep a computer in the shop, it'd offer a bit better protection as well. (Just don't forget that they do have to breathe to keep cool!)

The computers here, especially the OM's super-duper fast one with color monitor, *really* get into the BAs. I usually just turn 'em off. Two floors away from the BAs, but alas, the antenna runs right by their corner of the house. (Hmpf, color monitors--I'm still not all that used to not seeing the display on yellow teletype paper, with much huffing and clanking as it gets printed....)

73,
--Bobbi

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: mknudsen@lucent.com
Subject: Re: Radio Interference
Message-ID: <9612061737.AA00687@bock.ih.lucent.com>

Bobbi makes a good point about the monitor scan rates

(these are around 60 Hz and 30 KC these days, and their harmonics go forever just like the good old TV 15.75 KC).

Let me add that microcomputer clock speeds, while already mostly above our 30 MC limit, have lots of sidebands due to digital "modulation." That is, within the circuitry, there are branches of the clock that are constantly being gated on and off at irregular rates. Effectively being 100% AM'ed with signals of a few MHz.

The result is that the lower sidebands of your 75 or 133 MHz Pentium will pretty well blanket the spectrum all the way down to DC, with spurs at intervals of a few 100 KCs or MCs. It's fun to listen to them on a SW rx as you access the hard drive or repaint the screen on a graphics application. You can listen to an hour-long C compile and tell when it's finished.

So, don't count on computers just naturally outgrowing their tendency to spew QRM/N all over our HF bands. They'll stop it when the FCC makes the mfgs shield the machines, and umbrellas are rated for falling cow-flop. 73, mike k aa9rg

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Radio Interference
Message-ID: <Pine.ULT.3.95.961206150032.16917C-1000000@admin.aurora.edu>

On Fri, 6 Dec 1996 mknudsen@lucent.com wrote:

> Bobbi makes a good point about the monitor scan rates
> (these are around 60 Hz and 30 KC these days, and their harmonics
> go forever just like the good old TV 15.75 KC).
>
> Let me add that microcomputer clock speeds, while already mostly
> above our 30 MC limit, have lots of sidebands due to digital
> "modulation." That is, within the circuitry, there are branches of
> the clock that are constantly being gated on and off at irregular
> rates. Effectively being 100% AM'ed with signals of a few MHz.

While it is impossible to have a totally "clean" PC radiation-wise, I found it helps quite a bit to put ferrite cores around all the wires connecting to any peripherals.

Anything with a switching supply in it can be a real radiator. I once used a Teletype model 43 as a printer. It's switching supply was at 20 kHz and the 3rd harmonic totally wiped out WWVB which ruined any frequency comparisons I was doing.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: RS "stuff"
Message-ID: <m0vVoGR-0000k8C@e-tex.com>

Hey guys and gal,

Yesterday I needed plain vanilla RCA phono jacks so I made a run to RS.
After I got back I started mounting them on a mini-box. With the very first
one the threaded part broke off while tightening the nut-----with my
fingers. Am I a lucky guy or what? Remember the S could mean shaft. I
guess it's not as bad as springs in adapters.

73 de Pete WA5JCI

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: w2ec@VNET.IBM.COM
Subject: RE: RS "stuff"
Message-ID: <199612061356.HAA01163@uro.theporch.com>

>Yesterday I needed plain vanilla RCA phono jacks so I made a run to RS.
>After I got back I started mounting them on a mini-box. With the very first
>one the threaded part broke off while tightening the nut-----with my
>fingers. Am I a lucky guy or what? Remember the S could mean shaft. I
>guess it's not as bad as springs in adapters.

That is such a common occurance with those RCA phono jacks from RS that I
figure thats why they come 4 to a pack, so you may get 2 usable. I've also
broken them, and yes, with my fingers.

73, Ray W2EC

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: mack@mails.imed.com
Subject: SB102 Compatibility question
Message-ID: <9611068499.AA849911970@mails.imed.com>

Hello BA folk:

A friend and I are trying to get a novice on the air using an HD1410 electronic keyer and the SB-102 transceiver. Is anyone aware of anything special needed in hooking this keyer to the transceiver?

We don't have a manual for the keyer so we are flying blind here.
Thanks

Ray Mack
WD5IFS
mack@mails.imed.com
Friendswood (Houston), TX

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: Felix Barreras <chonte@nmt.edu>
Subject: Re: SB102 Compatibility question
Message-ID: <Pine.SUN.3.95.961206143904.23588A-1000000@jade>

On Fri, 6 Dec 1996 mack@mails.imed.com wrote:

> Hello BA folk:

>

> A friend and I are trying to get a novice on the air using an
> HD1410 electronic keyer and the SB-102 transceiver. Is anyone aware
> of anything special needed in hooking this keyer to the transceiver?

>

> We don't have a manual for the keyer so we are flying blind here.

> Thanks

Hello Ray

Nothing special, make a cable of two conductor, any two wire cable will do. On one end solder a RCA phone male plug and the other end solder a standard 1/4 inch male plug. make sure that center conductor is soldered to the center piece of each of the plugs and the other conductor is soldered to the ground side. Now plug the cable RCA end to the HD1410 and the other end to the transceiver and your all set to go. I used a HD1410 and a HW101 for many years. I still use the HD1410, but I connected a MFJ paddle, the \$49.00 chrome one and the combo works just great. The springs on the HD1410 had become very stiff. It was in storage for about ten years. I thought about replacing the springs but could never find anything that was good enough. I also had a minor problem once one of gates died and I found a replacement at Radio Shack for \$1.00.

Hope this helps. Don't give up on Heathkit, best there was for money.

de Felix

> Ray Mack
> WD5IFS
> mack@mails.imed.com
> Friendswood (Houston), TX
>
>

Felix G Barreras Jr (W5BX)	ex-WB5LXA,ex-WN5IYC,ex-WA5NSC,	
email chonte@nmt.edu	ex-KZ5FB Canal Zone Panama	
New Mexico Tech	ex-AC5FB US Army MARS	
Socorro,New Mexico USA	SARA, ARRL, QRP-L 240, & QRO	

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: CARINTWO@aol.com
Subject: Sky Buddy
Message-ID: <961206165434_807903031@emout16.mail.aol.com>

I picked up a Sky Buddy this morning at the flea market for about 20 bucks.
It's in very good condition electrically and in fair condition
cosmetically.

Needs knobs, slide switch for transmit/receive, dial cord and main dial
plastic frequency indicator. There have been no wiring or component
modifications or repairs that I can see and looks to still have the original
tube compliment. The main dial is painted grey (with black lettering) in
contrast to the "Boatanchors Pics" Sky Buddy where the main dial has been
left natural or silver. I've got some checking to do before I fire it up.

Serial number is H 101583 for those out there who may keep track of
such things.

Could someone familiar with this model kindly tell me a bit about its
pedigree
and history: when produced, number manufactured, approximate current
value and the best source for a schematic. I would also very much
appreciate knowing where I might obtain schematics for my other
Hallicrafters sets: SX-100, S-40 and Echophone EC-1B.

In my early ham days I started out with an NC-98 and worked up to
an NC-300. I always used National, but all I can find out here in Egypt
are Hallicrafters models. Maybe one of these days I'll come across one
of the missing SX-88s and retire on the proceeds of the sale.

Thanks for any information and help.

Jim Sorenson
WB6KNJ
CARINTWO@AOL.COM
Cairo, Egypt

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: bgraham@tecnet1.jcte.jcs.mil
Subject: Subject: WTB HQ145
Message-ID: <199612061114.GAA25480@tecnet1.jcte.jcs.mil>

Subject: WTB HQ145
I'm looking for an HQ145. Not to "restore" but to use so no
need for "pristine" although wouldn't want extra holes in the
front panel. (translation: I'm cheap <g>).

73

Bill
N5LMX/DA1WG
bgraham@tecnet1.jcte.jcs.mil

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Karl-Arne =?ISO-8859-1?Q?Markstr=F6m_08?= 6017171
Subject: Svar: Re: "Big" transmitters
Message-ID: <C60IPJ3JWC5*/R=A1/R=MRGST/U=KAM/@MHS.stoa.mobitel.telia.se>

except for RFI problems. Ever try operating in the middle of an HF
antenna field of rhombics and vee's fed with open-wire line from a bunch of 10
and 40KW xmtrs?

a

Ahhh, the good ol' days.

a

73, Mike, W5MAZ (in MN)

a

Dear Boatanchorites,

When reading about "the good old days" (despite my comparably young age of 40)
I could not resist contributing some of my own experience of "big" transmitters.

When I was new in the organization I work for (1982) 50 kW Telefunken
LF transmitters were still operated for the transmission of maritime and

Air Force weather charts and reports from a site in central Sweden.

Sometimes complaints were received about low signal strengths, and parallel operation of two TX's was attempted.

These attempts sometimes resulted in HUGE circulating coupling currents between the antenna tuning coils (one per TX) and associated fireworks. The normal antenna current was in the order of 100 A on 40 kHz, so the circulating currents must have been an order of magnitude greater.

The remedy was very careful tuning of the phasing networks and hoping that the weather would not change too much, which affected the reactive component of the antenna impedance.

As for RFI, at the site there were several high-powered HF transmitters, the worst being the 500 kW carrier Thomson-CSF HF broadcaster, and two Telefunken 100 kW's used for point-to-point.

The RF levels were sometimes high enough to create both funny and not-so-funny effects.

The funny side was when a visiting high-ranking official parked his French-made compact car with an electronic fuel injection system in the antenna beam of the HF broadcast transmitter and was not able to start the car and drive back until the transmission period was over.

One of the less funny was when a trainee (not me) was assigned the task of checking the feed impedance of a spare antenna and did not wait until no high-powered TX's were on the air. The vital parts of a General Radio impedance bridge and the input circuits of a 51S-1 were fried.

Those were the days...

73/

Karl-Arne Markstrom SM0AOM

kam@stoa.mobitel.telia.se

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: SCN User <nwqrp@scn.org>
Subject: Telephone Pioneers QSO Party
Message-ID: <Pine.3.89 SCN 1.0.9612052206.A10911-0100000@scn>

12/05/96

I was just mailed a message about a QSO party and was asked to post it. It is about the Wireless Pioneers QSO Party. I can't say whether or not there is a QRP category, but you testers out there may be interested in finding out!

Telephone Pioneers QSO Party

From: ljbeedle@scn.org (unknown)
To: kv9x@scn.org
Subject: QSO Party
Date: Thu, 05 Dec

Brian

The Telephone Pioneers are having a QSO Party this coming weekend and I was contacted by WA0CQS to see if anyone would be interested in posting some information to help get the word out. It is the 32nd annual party, scheduled for December 7 and 8. All Telephone Pioneer hams are invited to participate. Doug Marsh can be contacted either via call sign or email dlmarsh@uswest.com or Russ Faudree on 284-0982 can provide further information.

Lois

i	NorthWest QRP Club	-----
==[scn]==		--0---/\--
) (nwqrp@scn.org	/^\^\/ ^^\
/_ _\ 	http://www.scn.org/IP/nwqrp	--NW QRP--

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: mashaum@fcg.net (Mark Shaum)

Subject: That ever-popular HP 606 AM transmitter..

Message-ID: <M.120696.093354.21@NE9G>

John, WA1ABI comments re: The Ever Popular HP 606 AM exiter

> Hi Mark,
>
> Welllll, you actually wouldn't be the first HP-606 on the air.
> I ran a 606A for years on 75m AM... people still occasionally ask
> me when it will be back on the air. I ran line level audio to
> it from an Altec Lansing mixer and ended up with excellent
> broadcast quality audio. I drove my Gates HFL-1000 amplifier
> with it... about 10 milliwatts of carrier from the '606 for
> 350 watts carrier out. I did put the '606 straight to the antenna
> a couple of times and was heard up and down the coast from
> Maine to Maryland (I'm in RI.) On the highest range of the step
> attenuator with the vernier attenuator cranked all the way up
> it does tend to FM a little, though.
>

Hehehe.. quite a setup. If I can find some sort of AB1/AB2 power amp that works this weekend, or can haywire something up quick, I'll try to put the 606 on the Saturday morning 75M swap nets and Sunday morning/afternoon DX60 nets.. I figured that I could just feed a volt or so of RF into my Apache in SSB mode, where it has an external RF drive input to the PA grid circuit, but as with most of my boatanchors that sit around unused for six months or more, something needs fixing insides prior to use.

For an audio chain, I found that I need about 8V p-p for 100% modulation. So I'll run the D104 into the phono input on my SX42, and feed the 500 (or 5K) ohm output to the external mod input on the 606. More boatanchorish than using my Bogen PA amp, certainly.

I haven't tried, but since the mod input can be set for DC coupling, CW keying may be possible through the modulator tube. Something else to fiddle with this weekend <grin>.

> Now, about 160m... I'm QRV for 160. I've been on the 80m BA net
> many a night, but have never heard anything on 160. What time
> do you suggest?? My antenna is very modest on 160, but if the
> band is quiet, you might be able to hear me. I'll be running
> the Valiant II at about 200W out. What say??
>
>

Well, I think the usual NA4G/WS4S BA net folks kind of gave up on the 160 meter portion of the 40/80/160 meter hourly cycle, but with winter conditions setting in, it may be worth another shot. I'll try to be on 1802 Friday and Saturday

nights at 0200 and 0300Z, for a shot in the dark.. CQ BA CQ BA DE K9TR/BA...
Anybody with a firebottle and a coathanger is welcome to fire up and give it a
shot!

73! - Mark, K9TR

Mark Shaum, K9TR
mashaum@fcg.net

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Gary F. Franklin" <103273.1070@CompuServe.COM>
Subject: The Globe King 400 Thanks You!
Message-ID: <961206040723_103273.1070_IHH71-2@CompuServe.COM>

Thanks to all who have resposed to my inquiry about the 5514 modulator tubes!!
for my Globe King 400..... Looks like 811As will do the trick...just need to
change the filament transformer for a 6.3 VAC..... Anyone know where I can
get plug in coils for the 80 meter band?? 80MEL, 80JVL, 80TVL

-73-
Gary K8BKB
E-Mail: 103273,1070@compuserve.com

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996
From: "Gary F. Franklin" <103273.1070@CompuServe.COM>
Subject: Trimmer caps and the KWS-1
Message-ID: <961206040554_103273.1070_IHH71-1@CompuServe.COM>

Hello to all!

Has anyone noticed that the trimmer caps you would like to replace or rebuild
are always inaccessible? I am working on a KWS-1 transmitter and I have a few
8-50 pf trimmers which feel gummy and act radically when doing an alignment....I
thought I might try rejuvenating them or replacing them until I took the cover
off and found that most of them are under the band switch wafers!, no way to
get a wrench on the mounting screws!, etc.!!

I am hoping someone out there can recommend some amazing cleaner (like

carburetor cleaner) that will free up the gummy ones and improve alignment....Too much to hope for I am sure.....but you never know!

Thanks

Gary K8BKB
E-Mail: 103273,1070@compuserve.com

PS: I have used DeOxit D5, great stuff! but hasnt helped...

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Re: Trimmer caps and the KWS-1
Message-ID: <Pine.GS0.3.95L.961206042624.19311A-100000@unixs3.cis.pitt.edu>

Gary, it has been some time since I examined the position of those NPO ceramic trimmers; however, if you could slip off the retaining clip, you may be able to clean those trimmers with either lacquer thinner, nail polish remover or a commercial contact cleaner. Normally, the problem rests with the conductive material (fired silver into the ceramic body) "smearing" on the entire surface of the other half of the capacitor. A Q-tip soaked in the solution will clean the surface and restored the capacitor to its proper value.

I have little or no success spraying these capacitors as mounted.

Hope this little bit of information helps.

Dave, W3BJZ
Publisher of the monthly Collins Journal

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: pmills@A.crl.com (Phil Mills)
Subject: Re: Trimmer caps and the KWS-1
Message-ID: <199612061251.AA15752@A.crl.com>

Gary, don't despair, you don't need to remove them. As Bill Sorsby pointed out relative to a KWM-2 project, these things come apart easily....I know because I inadvertently pulled a couple apart on my KWS-1.

If you look closely from the bottom of the trimmer (under the chassis), you will see that one of the 2 electrical connections appears to go to the center shaft of the trimmer. This is also a clip that holds the top part of the trimmer in place. By taking a pair of needle nosed pliers and

pulling back gently at the base of this connection to the center shaft, you unsnap the connector from the shaft and allow the shaft to fall free. Only about 1/8 inch movement is needed here. You can then clean the two mating surfaces of the trimmer. To reassemble, you simply place the top part back in place and use the needle nosed pliers to snap the connector back in place.

good luck & 73,
Phil

>
>Has anyone noticed that the trimmer caps you would like to replace or rebuild
>are always inaccessible? I am working on a KWS-1 transmitter and I have a few
>8-50 pf trimmers which feel gummy and act radically when doing an
alignment....I
>thought I might try rejuvenating them or replacing them until I took the cover
>off and found that most of them are under the band switch wafers!, no way to
>get a wrench on the mounting screws!, etc.!!

>
>I am hoping someone out there can recommend some amazing cleaner (like
>carburetor cleaner) that will free up the gummy ones and improve
>alignment....Too much to hope for I am sure.....but you never know!

>
Phil Mills, AB5TH ***** *****
pmills@a.crl.com
281-992-5762 days
Friendswood, TX (south of Houston)

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: Trimmer caps and the KWS-1
Message-ID: <199612061722.KAA13310@netcom5.netcom.com>

As Gary F. Franklin discourses

>
> Hello to all!
>
> Has anyone noticed that the trimmer caps you would like to replace or rebuild
> are always inaccessible? I am working on a KWS-1 transmitter and I have a few
> 8-50 pf trimmers which feel gummy and act radically when doing an alignment....I
> thought I might try rejuvenating them or replacing them until I took the cover
> off and found that most of them are under the band switch wafers!, no way to
> get a wrench on the mounting screws!, etc.!!
>
> I am hoping someone out there can recommend some amazing cleaner (like
> carburetor cleaner) that will free up the gummy ones and improve

> alignment....Too much to hope for I am sure.....but you never know!
>

Automotive lacquer thinner is safe to use on ceramic trimmers (the type used as compensating caps on Tek letter series plugins). If there are ink markings, it will probably remove them. But it leaves the caps squeaky clean. Some of this stuff on a Q tip, cleaning both the top and bottom surfaces, where the silver is in place, is probably sufficient.

Don't use automotive "carburetor cleaner" solutions like Bendix Metal Cleaner or Gunk on anything. This is terrible stuff---almost impossible to get it all washed off, even in a water rinse, and it stinks to high heaven.

Note that lacquer thinner is super-flammable stuff, and also fume-ridden. Use outdoors.

--

=====
Hank van Cleef
E-mail vancleef@netcom.com or vancleef@tmn.com
=====

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Trimmer caps and the KWS-1
Message-ID: <199612061758.LAA03533@lesol1.dseg.ti.com>

At 06:53 AM 12/6/96 -0600, you wrote:

>... As Bill Sorsby pointed
>out relative to a KWM-2 project, these things come apart easily....I know
>because I inadvertently pulled a couple apart on my KWS-1.

FWIW, I used isopropyl alcohol to clean the capacitors in my KWM-2A. Cleaning was easy, successful and, best of all, no trimmers needed to be replaced. YMMV

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: Tubes and such
Message-ID: <961207001636_75121.100_IHV34-1@CompuServe.COM>

The following people have ordered tubes or written for more information (besides requesting the tube list)

I could not respond to all individually so I hope this suffices, and serves to verify receipt of your messages..

Michael Tallent; Bob Peters; Jose Gavila; Ragsdale; Bryan Stephens; Ben Hall; Mike Stover; Charlie sp600; Mike Stover; Rick TUBEBUYER; John Kolb; Richard WB6ZWC; August Johnson; Merv Schweigert; Morris Odell; Al Stephens; Jim Berry; Joe Pinner; Charles Kadesch; Rob Kerby; John Michael Rudy Salomon; Tom Laird; Paul Veltman; Doug W0AH; Lennox Carruth; Bill Hawkins; Dick Gray; Bill Scolnik; Ivan Hafstrom; Bob KE4QOK; Roy Morgan; Jim Wilson; Dayton Jones; Dennis Gibbs
Dennis McLaughlin; Rudy Salomon and Tom Bowes.

I will contact individuals as I get to their list re cost and quantity. Needless to say, when I only have 4 or 5 of 1 type of tube, they will be gone very fast. However, not everyone wants tubes for his collins and most people will get a pretty good share of their wish list.

Raymond Cote
1405 Dominis St #105
Honolulu Hawaii 96822

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Tucker Electronics does it again!
Message-ID: <199612061720.RAA71648@mule0.mindspring.com>

Gang,

As many of you know, Tucker Electronics promised to have a liquidation of their BA and related ham gear on their web page. I have been checking each week and today I found they have a new web page and webmistress.

Navigating (good buzz word to go with boat anchors) their page I found in news that Tucker sold "ALL" their BA/Classic gear to Surplus Sales of Nebraska. Guess that ends any chance of "fire" sale pricing. Tried to copy the announcement paragraph, but they have most of the web locked from copy unless you want to save the whole thing as a file and cut out the paragraph. Announcement date is Dec 5.

73, Dave K4JRB
thompson@mindspring.com

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: Re: Tucker Electronics does it again!
Message-ID: <199612061920.NAA17845@smtp.gte.net>

> Navigating (good buzz word to go with boat anchors) their page I found in
> news that Tucker sold "ALL" their BA/Classic gear to Surplus Sales of
> Nebraska. Guess that ends any chance of "fire" sale pricing.

Unless they have been hiding the good stuff, or unless Jim Tucker sold off what I assumed was his personal collection (on display in the store), no one really missed much of anything. What they had on display that was for sale was, with the rare exception, junk and parts-unit-quality at best. (Except for a pair of HQ-120's that together would have made a fine restoration project for one good specimen -- almost sprung for them one fine Saturday, and regretably, didn't).

If, on the other hand, they did indeed sell the "museum" display pieces in the store -- that's a different story. Some VERY nice specimens, and a few pieces that I would classify as quite rare. I would hate to see SSoFN prices on these pieces of equipment.

Grant/NQ5T

Grant Youngman / NQ5T

nq5t@gte.net
<http://home1.gte.net/nq5t/index.htm>
Double Oak, TX -- nr Dallas

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Tucker Electronics does it again!
Message-ID: <199612062020.0AA21076@lesol1.dseg.ti.com>

At 01:21 PM 12/6/96 -0600, Grant Youngman wrote:

>If, on the other hand, they did indeed sell the "museum" display
>pieces in the store -- that's a different story. Some VERY nice
>specimens, and a few pieces that I would classify as quite rare.

Having watched the "Museum" pieces change over time, I came to the conclusion that everything there was available for a price, even if the signs said "not for sale". (I think that was really just a cute gimmick Tucker's used to charge even higher prices!) As for condition, what I remember wasn't generally all that nice, just nicely polished. I watched with interest over about a year as a pair of S-40A's, I believe, came into the museum after being on the "for sale" shelf a while. They had been filthy and had rust streaks originally, but were nicely cleaned and polished when put into the "museum". (Tucker had set a firm price of \$70 each for them when in poor condition. After cleaning, of course, they were much too valuable to sell!) I also recall an Eico 753, which progressed from being a \$100 piece of dirty merchandise (without power supply) to becoming an historic relic.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996
From: "Andy Howard, WA4KCY" <102452.362@CompuServe.COM>
Subject: Valiant SSB adapter manual
Message-ID: <961206193050_102452.362_DHT33-1@CompuServe.COM>

Hello all,

Through the kindness of a list member I was able to obtain a manual for my "in the box" Valiant II. I am still needing a manual for the sideband adapter for the Valiant. I would like to run this transmitter on vintage SSB and will probably need to build a power supply for the adapter. I am not at all familiar with the unit so any help would be greatly appreciated. That is what happens when you stay on AM all your life.

The manuals for this fine equipment probably ended up in the trash since this was from an estate. Shame that this happens when we don't tell our spouses how to dispose of everything and where manuals are located.

Thanks and 73,

~~~~~  
Andrew E. (Andy) Howard, Sr., WA4KCY  
105 Sweet Bay Lane  
Carrollton, Georgia 30116-8519  
Telephone 770-832-0202  
Southeastern Division Director, AM International  
102452.362@compuserve.com  
wa4kcy@usa.net wa4kcy@juno.com  
Vintage Radio Home Page Address:  
<http://ourworld.compuserve.com/homepages/sweetbay>  
<><

~~~~~  
"Our Constitution was made for a moral and religious people.
It is wholly inadequate for the government of any other."
John Adams-1798
~~~~~

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996  
From: owens@stout.atd.ucar.edu (Chip Owens)  
Subject: Wanted & Trade ITEMS  
Message-ID: <199612062301.QAA29905@atd.atd.ucar.EDU>

wanted:

- \* Mercury displacement relay(s) for homebrew HV power supply.  
I'm looking for relays with 35 amp or better contact rating  
and a 24V DC coil. They normally come in 35, 60, and 100amp.  
Need 2 single-pole units or one 2-pole unit.
- \* Millen HV connectors, 2 each of RED and BLACK

for trade:

- \* NOS Universal Replacement Output Transformers  
Thordarson part no. T-22S74

will match single end or push-pull plates to spkr. voice coil.  
Spec sheet in the box shows how to connect taps to match any  
reasonable plate load impedance to voice coil. No power rating  
is given. Weight is about 2 lbs. Looks like good for push-pull  
6V6 or so, but not much more. Core size: 3"long X 2.55" high X  
1" thick.

Chip Owens, NW00  
owens@stout.atd.ucar.edu

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996  
From: "Anderson, Craig - Ext. 1365" <CAnderso@smtp.stp.tec.mn.us>  
Subject: Wanted S-Line Spkr.  
Message-ID: <32A8C00A@smtp.stp.tec.mn.us>

Wanted S-line speaker, winged emblem. If you have one you would like to sell let me know price and condition.

Craig, K0AZB

canderso@stp.tec.mn.us

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996  
From: jcreid@CCGATE.HAC.COM  
Subject: What tube is this?  
Message-ID: <9611058498.AA849831953@CCGATE.HAC.COM>

Hi Gang,

I was rummaging for Christmas stuff in the garage and came across an H.H. Scott amplifier(model 299-D) I bought a few years back. It's got a set of 4 7591 output tubes in it. They are marked with H.H. Scott on the base so I'm assuming they're the originals. What are these bad boys similar to? Are they still available?? Thanks in advance.

-Jim N6SVS  
jcreid@ccgate.hac.com

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996  
From: Richard Hager <rhager@millcomm.com>  
Subject: Re: What tube is this?  
Message-ID: <32A767FD.7D4C@millcomm.com>

jcreid@CCGATE.HAC.COM wrote:

>

> It's got a set of 4

> 7591 output tubes in it. They are marked with H.H. Scott on the base so I'm

> assuming they're the originals. What are these bad boys similar to? Are they still available?? Thanks in advance.

--

Jim,

I don't have the tube manual handy, but I believe the 7591 has the same pinout as the 7581 and 6L6. Better verify this before you plug in 6L6's and apply power though!

Richard Hager

+ Ah-ha! Design Group, Inc. -  
+ Precision CNC Technology, since 1991 -  
+ 612-641-1797, Fax: 612-641-8681 -  
+ "I just like to make things" So... -  
+ please call Ah-ha! directly for CNC info -  
+ <http://www.gdic.com/ahha> email: [ahha@gdic.com](mailto:ahha@gdic.com) -

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996  
From: rlahlum@juno.com (Ross J Lahlum)  
Subject: Re: What tube is this?  
Message-ID: <19961205.225452.4670.2.rlahlum@juno.com>

Jim,

You have 4 rare tubes, there - about as hard to find as 1L6's!  
6L6's would be a good sub for the 7591, but they are NOT pin-compatible,  
so if you need  
to replace them you'll have to do a little transplant surgery (hee-hee)!  
There have been rumors of Svetlana or Sovtek coming out with a new 7591  
some day,  
as there would probably be enough demand - 7591's were used in a lot of  
hi-fi gear & guitar amps.

Good luck,  
Ross KB9JJR  
[rlahlum@juno.com](mailto:rlahlum@juno.com)

On Thu, 5 Dec 1996 18:28:26 -0600 (CST) jcreid@CCGATE.HAC.COM writes:  
>Hi Gang,  
> I was rummaging for Christmas stuff in the garage and came across an  
>H.H.  
>Scott amplifier(model 299-D) I bought a few years back. It's got a  
>set of 4  
>7591 output tubes in it. They are marked with H.H. Scott on the base  
>so I'm  
>assuming they're the originals. What are these bad boys similar to?  
>Are they  
>still available?? Thanks in advance.

>  
>-Jim N6SVS  
>jcreid@ccgate.hac.com  
>  
>

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996  
From: vancleef@netcom.com (Henry van Cleef)  
Subject: Re: What tube is this?  
Message-ID: <199612060555.WAA20839@netcom17.netcom.com>

As jcreid@CCGATE.HAC.COM discourses

>  
> Hi Gang,  
> I was rummaging for Christmas stuff in the garage and came across an H.H.  
> Scott amplifier(model 299-D) I bought a few years back. It's got a set of 4  
> 7591 output tubes in it. They are marked with H.H. Scott on the base so I'm  
> assuming they're the originals. What are these bad boys similar to? Are they  
> still available?? Thanks in advance.  
>  
Arggh!! 60's toob audio!

The 7591 was used in the 1960's, and most of the designs in which it was used were pushed to the limits. Replacement 7591's are difficult to find, expensive, and very likely to have troubles in the set. The original setups using these tubes generally gobbled a set of four tubes in about 1000 hours use.

There are a variety of problems in these amplifiers, and if you want to get one running and have the tubes last a while, you are in for some major surgery. I'll run through some of the drill:

7591's. These are beam "tetrodes" with ratings similar to 807 and 6146 but draw much higher screen current (screens normally glow red). They are packaged in the standard T-9 GT tube bottle (same size as 50L6) and cook themselves to death in a hurry. Run class AB1 they'll (theoretically) put out 43 watts. The first two problems you face are in the socket wiring, which is very different from the 7AC used by the usual beam tetrodes (6L6, 6V6, 50L6, etc.). If the sockets are mounted on printed circuit boards, you are in trouble.

The tubes, as mentioned, are much smaller than anything else with similar ratings (except, perhaps some of the 6L6 wannabes like 7027---also a scarce "toob audio" tube), and these sets came from the small (and hotter than hell) beautiful school, so you may not be able to make a substitution and put the case cover back on (good idea to leave it off because of the heat).

You have choices to actually install 807's or 6146's, leave the cover off, and leave the B+ as original, or de-volt the thing and use 6L6's. If the set uses a 5AR4/GZ34 rectifier, you can dump about 40 volts by using a 5U4---socket wiring is the same. Many of these sets use 750VCT or 800VCT transformers and 500 or 550 volt electrolytics---another problem area.

They generally use fixed bias on the output tubes, using a selenium rectifier---some of these were in cartridges, not the usual fin jobs. Replace with a 1N4003 or 1N4005. Make SURE you have solid bias. You should have around -18 volts at least, and taking it down to -21 would be even better (this was a 60's trick to make 7591's and 5AR4's last two years instead of one). If you are going to use 6L6, 807, or 6146, get the screen voltage down plenty, to keep the tube within ratings.

Check the value of the output tube grid leak resistors. The tube manuals said "100K maximum for fixed bias, 470K maximum for cathode self-bias." The manufacturers often used fixed bias and 470K grid leaks. This is for grid gas current control, and you're looking at a formula for gas current runaway. Get the impedance down. You can generally get away with 180K, but no more.

Replace the output tube grid DC blocking caps with nice new 600 volt caps. This is mandatory----any leakage here, and you're screwed.

The driver tubes were usually 7199 triode-pentodes. These are wretched little beasties and also expensive and hard to find. Rewire the socket to use something like a 6BA8 or 6AU8---easier to find, and more durable. I'd have to check to see which is more suitable, but almost anything is better than a 7199, unless it's a 6U8.

If you've got an 800 volt transformer (400 volts to each rectifier plate) and use a 5U4, you're going to have trouble with startup surge voltage, which is going to be up around 540 volts on the B+ bus. That's a lot to shove into single electrolytics. One of the problems with electrolytics we haven't covered in previous discussions is that the chemistry of the thing has some unpleasant low points that limit the process to about 600 volts. So if you are working with something that needs more than 450 volts running, 525 volts surge, you're pushing the envelope.

Now if this sounds like "more trouble than it's worth" I won't argue the point. I don't do toob audio, so don't read the rec.audio.tubes newsgroup very often, but I think if you've got a working set with four working non-gassy 7591's, you might get some coin of the realm (\$ US) for it either as-is (don't plug it in) or with the bias supply and

grid circuits redone (in which case you can plug it in).

My opinion is that the original design would have worked very nicely with 807's and a suitable power supply (816, 866Jr, choke input, oil-filled filter caps). More than a few of these sets got rescued from dumpsters and had their magnetics purloined for such designs.

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=====  
Hank van Cleef  
E-mail vancleef@netcom.com or vancleef@tmn.com  
=====

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996  
From: Dan Kerl <dlkerl@ro.com>  
Subject: Re: What tube is this?  
Message-ID: <32A84847.49A@ro.com>

7591 is a late design beam tetrode that allowed designers to get alot of power out of a small space, requiring relatively little drive voltage to do so. I recently 'restored' a Heathkit AA-100 integrated (audio) amp that used these (Vb=430 v, around 25W output). I ended up trashing the power amp PC board (the phenolic was well cooked) and making a sub chassis to use 6GM5 tubes. These are electrically identical but have a standard 9-pin base. AES cost for NOS 7591s run about 60-65 bucks. 6GM5s run about 20 bucks, although I've gotten them for alot less at hamfests.

Henry makes an excellent point about the selenium bias rectifier that seems to be heavily used in these amps. I wonder how many 7591s have been prematurely destroyed by these things?

Dan Kerl  
dlkerl@ro.com

PS - AES sells a 7591 to 6GM5 adapter, if you can stand an additional 1/2" height.

PPS - Sorry about the audio-related post.

From boatanchors@theporch.com Fri Dec 6 19:52:45 1996  
From: "Anderson, Craig - Ext. 1365" <CAnderso@smtp.stp.tec.mn.us>  
Subject: WTB S-Line Spkr.



Message-ID: <32A8C008@smtp.stp.tec.mn.us>

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996  
From: Gary Youney <72302.2164@CompuServe.COM>  
Subject: WTB: PL172  
Message-ID: <961206162424\_72302.2164\_DHR32-1@CompuServe.COM>

I need one for my HT-33B linear. Anyone have one at a decent price?

73, Gary K5QT

From boatanchors@theporch.com Fri Dec 6 12:57:36 1996  
From: dvorkin@pcs.mot.com (Vlad Dvorkin)  
Subject: WTB: Oold CQ issues  
Message-ID: <199612061659.LAA05829@iron65.pcs.mot.com>

Hello,

I am looking for the following old CQ issues:  
August 1980, December 1980, May 1981 and August 1981.  
Would consider complete sets for 1980 and 1981 as well.

Regards,  
Vlad  
KB9OLM  
ex UA3ACR

From boatanchors@theporch.com Fri Dec 6 02:37:23 1996  
From: "Karl-Arne Markstr\vm" <kam%a1.mrgst.umd@radux.hk.mobitel.telia.se>  
Subject: WTB: thermocouple for Boonton 260A Q-meter  
Message-ID: <12748060216991/923623@MRGST>

Hello Boatanchorites!

An old friend of mine and BA enthusiast, SM6GXV, has  
acquired a Boonton 260A Q-meter which turned out to  
have a bad thermocouple. Can anyone out there help?

If able to contribute, please reply directly to:

Ulf Kylenfall SM6GXV

Tel

(46) 31-689700

73/  
Karl-Arne Markström  
SMØAOM

kam@stoa.mobitel.telia.se